Glucagel™

Glucagel™ is:

- a rich extract with 75% mixed linkage cereal beta-glucans from waxy, hulless barley.
- · a gelling hydrocolloid
- highly concentrated source of bioactive bioactive beta glucans which can help to lower blood serum cholesterol levels and modulate post prandial blood glu cose levels.
- · a rich source of anti-oxidants
- a fine light, bland, flexible material that can be used in a wide range of food applications.
- a rich natural, soluble, non-digestible dietary fiber that promotes digestive health.
- a prebiotic non starch polysaccharide that readily is fermented by healthy bacteria in the colon and contributes to immune system health.
- an ingredient that responds well to most typical food processing, including both baking and freezing.

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BBG - Mixed Linkage Barley Beta Glucan

What Are Beta Glucans?

Beta glucan is a non-starch polysaccharide, soluble fiber that is naturally present in barley, oat bran and other grains. It is found in greatest concentration in the endosperm (inner layer) of barley, particularly in waxy hulless barley varieties. In general, these soluble fibers form a viscous solution when dissolved in water. Beta glucans are very strong hydrocolloids, taking up approximately twenty times their volume in water.

Glucagel™ is extracted from barley using a benign patented process that retains the natural qualities of the material.

Barley beta-glucans that make up the bioactive fraction of Glucagel™ have been widely studied in clinical trials for their beneficial effects on human nutrition and health. Many studies indicate that adding beta glucan (at levels of 3g or more per day) to the diet can help to reduce LDL cholesterol and trigylceride levels that are risk factors for cardiovascular disease.

There is also evidence from a number of clinical studies indicating that barley beta-glucan is effective in reducing post-prandial blood glucose elevations and modulating blood sugar cycles, a key for diabetics and others with glucose metabolism disorders.

The beta-glucan fraction of Glucagel™ is not digested in the human digestive system. It is, however, fermented by health bacteria in the colon, which can contribute to immune health.

Product Characteristics for Glucagel™ (BB-3)

Glucagel'	Grade	Food
Specifications	Units	
Physical	,	
Colour	L, a,b.	light tan
Molecular weight	kD	50-60
Particle size	% retained on 125mm	<3
Chemical		
b-glucan	%dsb	75
Moisture	%	3-10
Protein	%dsb	2-10
Arsenic	ppm dsb	<1
Lead	ppm dsb	<2
Microbiological		
Total Plate Count	Org/gm	< 50,000
Yeast & Mould	Org/gm	<1000
Coliforms	Org/gm	<10
E. Coli	0rg/10gm	ND.
Salmonella	Org/25gm	ND.
Functionality		
Gel Strength (3%)		
Instron rupture test	g	30 - 100
Compression before rupture	mm	3.5 - 5.0